



LAND



SEA



AIR

# ROC285AA

19" 1U RACK-MOUNT RUGGED FANLESS  
SERVER  
INTEL® I7-9700TE PROCESSOR, RICH  
I/O INTERFACE, DC-DC POWER  
SUPPLY WITH REDUNDANT SUPPORT,  
OPERATING TEMP. -20 ~ 60°C



## POWER AUTOMATION COMPUTER

- Intel® Coffee Lake-Refresh i7-9700TE (8 Cores, 3.8GHz)
- 2 x SO-DIMM DDR4 2400/2666 MHz up to 64GB
- 1 x PCIe16 Slot  
1 x M.2  
(Key M, PCIe4 and SATA3) Expansion Slot
- 6 x USB, 3 x DisplayPort, 2 x LAN, 1 x Line-out/Mic



# Specifications

## SYSTEM

High Performance Processor	Intel® 9th Gen. Core™ i7-9700TE (Frequency 1.8 GHz, Turbo Boost up to 3.8 GHz), 8 Cores, 8 Threads Support, 12 MB SmartCache. Build-in UHD Graphics 630 for excellent 3D, Optane™ Memory, Turbo Boost Technology 2.0, and VPro support.
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Memory type	2 x SO-DIMM DDR4 2400/2666 MHz up to 64GB
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Chipset	Intel® Q370 Chipset
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Expansion Slot	1 x PCIe x16 (Graphics card dimension should not be large than 170x110mm) 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3
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## DISPLAY

DisplayPort	Resolution up to 4096 x 2304 60@Hz
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## STORAGE

HDD/SDD	2 x 2.5" SATA HDD/SSD easy swap tray
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## ETHERNET

Ethernet	Intel® I210 & I219LM GbE LAN (support 10/100/1000 Mbps for x2 RJ45 ports)
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## REAR I/O

Display Port	3 x DP
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Ethernet	2 x RJ45
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Audio	2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out)
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COM	1 x RS232/422/485
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USB Port	4 x USB 3.1(10Gb/s)
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DC-IN	1 x 4P Terminal Block
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## FRONT I/O

Button	1 x Power Button w/Indicator LED
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Indicator LED	HDD
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USB Port	2 x USB 2.0
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Easy Swap SSD Tray	2
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Power Input	9~36V DC-in
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## APPLICATIONS, OPERATING SYSTEM

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Applications	Commercial and Industrial Platforms, Embedded Computing, Process Control, Intelligent Automation and manufacturing applications
Operating System	Windows 10 64Bit Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20

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## PHYSICAL

Dimension (W x D x H)	440 x430 x 44 mm
Weight	8.92Kg
Chassis	SECC
Heatsink	Aluminum Alloy, Corrosion Resistant
Finish	Anodic aluminum oxide

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## ENVIRONMENTAL

MIL-STD-810G Test	Method 507.5, Procedure II (Temperature & Humidity) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)
Green Product	RoHS compliance
Operating Temperature	w/o Graphic Card (ET: -20 to 60°C; UT: -30 to 70°C) ; w/Graphic Card (0 to 50°C)
Storage Temperature	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing
EMC	CE and FCC compliance

## Ordering Information

ROC285AA-ET

19" 1U Rack-mount Rugged Fanless System with Intel® Cofelake Core i7-9700TE,  
3 x DisplayPort, 1 x PCIe x16, 6 x USB, 9~36V DC-in, Operating Temp. -20~+60°C

ROC285AA-UT

19" 1U Rack-mount Rugged Fanless System with Intel® Cofelake Core i7-9700TE,  
3 x DisplayPort, 1 x PCIe x16, 6 x USB, 9~36V DC-in, Operating Temp. -30~+70°C

# Dimension

